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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,085	12/04/2001	Anthony C. Mulligan	003248.00045	8564
22908 75	90 03/17/2003			
BANNER & WITCOFF, LTD. TEN SOUTH WACKER DRIVE SUITE 3000 CHICAGO, IL 60606			EXAMINER	
			SAVAGE, JASON L	
CHICAGO, IL	00000		ART UNIT	PAPER NUMBER
			1775	7
			DATE MAILED: 03/17/2003	(

Please find below and/or attached an Office communication concerning this application or proceeding.

		A > A				
	Application No.	Applicant(s)				
	10/005,085	MULLIGAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jason L Savage	1775				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a ly within the statutory minimum of th will apply and will expire SIX (6) MC e, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	•	•				
2a) This action is FINAL . 2b) ☑ TI	nis action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-24 are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to by	the Examiner.				
Applicant may not request that any objection to the	= : :					
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.				
If approved, corrected drawings are required in re						
12) The oath or declaration is objected to by the Ex	kaminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority document	ts have been received.					
2. Certified copies of the priority document	ts have been received in	Application No				
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	_				
14) ☐ Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C	. § 119(e) (to a provisional application).				
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domes 	• •					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice o	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)				

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1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-14, drawn to a monolithic structure, classified in class 428, subclass 614.
- II. Claims 15-18, drawn to a method of forming a piezoelectric/electrostrictive structure, classified in class 264, subclass 104.
- III. Claim 19, drawn to a composite part, classified in class 428, subclass 457.
- IV. Claim 20, drawn to a monolithic structure, classified in class 428, subclass 375.
- V. Claims 21 and 24, drawn to a monolithic structure, classified in class 428,
 subclass 375.
- VI. Claims 22-24, drawn to a monolithic structure, classified in class 428, subclass 380.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01).

It was noted that claims 16-18 depend from claim 1, however, given that claim 1 is drawn to an article claim, not a method, and that claims 16-18 refer to limitations such as 'the electrically conductive material' which can not be found in claim 1, it is believe that making these claims dependent on claim 1 was an oversight. The subject matter of claims 16-18 appear in line with claim 15, and has been treated as if it depends from claim 15.

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In the instant case the inventions differ in that Group I is drawn to a fibrous monolith structure having 3 phases while Group II is drawn to a method of forming a piezoelectric/electrostrictive structure having a core and shell structure.

Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group I is drawn to a fibrous monolith structure having 3 phases while Group III is drawn to a composite part having 2 phases which include repeated structural units each comprising an ordered microstructure of each of the phases.

Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group I is drawn to a fibrous monolith structure having 3 phases while Group IV is drawn to a monolith having a core material and shell material wherein one material is conductive and one is insulating.

Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group I is drawn to a fibrous monolith structure having 3 phases while

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Group V is drawn to a monolith having a core material and shell material wherein only one of the materials is a piezoelectric material.

Inventions I and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group I is drawn to a fibrous monolith structure having 3 phases while Group VI is drawn to a monolith having a core material and shell material wherein the materials comprise different electromotive potentials.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group II is drawn to a method of forming a piezoelectric/electrostrictive structure having a shell and core structure while Group III is drawn to a composite part having 2 phases which include repeated structural units each comprising an ordered microstructure of each of the phases.

Inventions II and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group II is a method of forming a piezoelectric/electrostrictive structure

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having a shell and core structure while Group IV is drawn to a monolith having a core material and shell material wherein one material is conductive and one is insulating.

Inventions II and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group II is a method of forming a piezoelectric/electrostrictive structure having a shell and core structure while Group V is drawn to a monolith having a core material and shell material wherein only one of the materials is a piezoelectric material.

Inventions II and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group II is a method of forming a piezoelectric/electrostrictive structure having a shell and core structure while Group VI is drawn to a monolith having a core material and shell material wherein the materials comprise different electromotive potentials.

Inventions III and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group III is a composite part having 2 phases which include repeated structural units each comprising an ordered microstructure of each of the phases while Group IV

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is drawn to a monolith having a core material and shell material wherein one material is conductive and one is insulating.

Inventions III and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group III is a composite part having 2 phases which include repeated structural units each comprising an ordered microstructure of each of the phases while Group V is drawn to a monolith having a core material and shell material wherein only one of the materials is a piezoelectric material.

Inventions III and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group III is a composite part having 2 phases which include repeated structural units each comprising an ordered microstructure of each of the phases while Group VI is drawn to a monolith having a core material and shell material wherein the materials comprise different electromotive potentials.

Inventions IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group IV is drawn to a monolith having a core material and shell

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material wherein one material is conductive and one is insulating while Group V is drawn to a monolith having a core material and shell material wherein only one of the materials is a piezoelectric material.

Inventions IV and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group IV is drawn to a monolith having a core material and shell material wherein one material is conductive and one is insulating while Group VI is drawn to a monolith having a core material and shell material wherein the materials comprise different electromotive potentials.

Inventions V and VI are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions differ in that Group V is drawn to a monolith having a core material and shell material wherein only one of the materials is a piezoelectric material while Group VI is drawn to a monolith having a core material and shell material wherein the materials comprise different electromotive potentials.

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3. Because these inventions are distinct for the reasons given above and the search required for and of Groups I-VI is not required for Group, restriction for examination purposes as indicated is proper.

4. A telephone call was made to Rebecca Rooks on 2-28-03 to request an oral election to the above restriction requirement, but did not result in an election being made

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CAR 1.143).

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventor ship must be amended in compliance with 37 CAR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventor ship must be accompanied by a request under 37 CAR 1.48(b) and by the fee required under 37 CAR 1.17(I).

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6. Any inquiry to this communication or earlier communications from the Examiner should be directed to Jason Savage, whose telephone number is (703)305-0549. The Examiner can normally be reached Monday to Friday from 6:30 AM to 4:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Deborah Jones, can be reached on (703)308-3822.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)308-2351.

Jason Savage

2-28-03

OHN J. ZIMMERMAN PRIMARY EXAMINER